

Title (en)
METHOD AND DEVICE FOR MANUFACTURING OPTICAL FIBER GRATING, OPTICAL FIBER GRATING, OPTICAL MODULE, AND OPTICAL COMMUNICATION SYSTEM

Title (de)
VERFAHREN UND EINRICHTUNG ZUR HERSTELLUNG EINES FASEROPTISCHEN GITTERS, FASEROPTISCHES GITTER, OPTISCHES MODUL UND OPTISCHES KOMMUNIKATIONSSYSTEM

Title (fr)
PROCEDE ET DISPOSITIF DE FABRICATION D'UN RESEAU DE FIBRES OPTIQUES, RESEAU DE FIBRES OPTIQUES, MODULE OPTIQUE ET SYSTEME DE COMMUNICATION OPTIQUE

Publication
EP 1345050 A4 20051012 (EN)

Application
EP 01998853 A 20011128

Priority

- JP 0110382 W 20011128
- JP 2000360905 A 20001128
- JP 2001335669 A 20011031
- JP 2001342507 A 20011107

Abstract (en)
[origin: EP1345050A1] An object of the invention is to improve polarization dependence of insertion loss (PDL) in an ultraviolet light induced optical fiber grating. In the invention, in a method of manufacturing an optical fiber grating with a plurality of grating sections arranged intermittently at a predetermined period along the longitudinal direction, by irradiating, from the side of an optical fiber having locations made of a material wherein the refractive index rises when irradiated by light of a specific wavelength, light of this specific wavelength along the length direction of the optical fiber at a predetermined period, causing the refractive index of the irradiated sections to rise, high refractive index sections are formed by irradiating light evenly onto the optical fiber around the circumferential direction thereof. <IMAGE>

IPC 1-7
G02B 6/10; **G02B 6/16**

IPC 8 full level
G02B 6/02 (2006.01); **G02B 6/10** (2006.01)

CPC (source: EP US)
G02B 6/02109 (2013.01 - EP US); **G02B 6/02123** (2013.01 - EP US); **G02B 6/02138** (2013.01 - EP US); **G02B 6/105** (2013.01 - EP US); **G02B 6/02147** (2013.01 - EP US); **G02B 6/02152** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
AT BE FR GB

DOCDB simple family (publication)
EP 1345050 A1 20030917; **EP 1345050 A4 20051012**; CN 1311259 C 20070418; CN 1606706 A 20050413; EP 1760501 A1 20070307; US 2004028331 A1 20040212; US 7298944 B2 20071120; WO 0244770 A1 20020606

DOCDB simple family (application)
EP 01998853 A 20011128; CN 01822287 A 20011128; EP 06022847 A 20011128; JP 0110382 W 20011128; US 43282403 A 20030527